# (19) World Intellectual Property Organization

International Bureau



### 

## (43) International Publication Date 16 June 2005 (16.06.2005)

#### **PCT**

## (10) International Publication Number WO 2005/054615 A1

(51) International Patent Classification7:

E05F 11/38

(21) International Application Number:

PCT/CA2004/002075

(22) International Filing Date: 3 December 2004 (03.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/527,312

5 December 2003 (05.12.2003) US

(71) Applicant (for all designated States except US): INTIER AUTOMOTIVE CLOSURES INC. [CA/CA]; 521 Newpark Boulevard, Newmarket, Ontario L3Y 4X7 (CA).

(72) Inventors; and

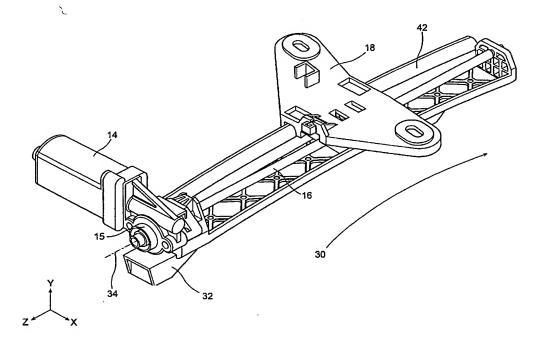
(75) Inventors/Applicants (for US only): SMITH, Peter, J. [GB/CA]; 263 Park Avenue, Newmarket, Ontario L3Y 1V3 (CA). GIDDEN, Dan [CA/CA]; 91 Noble Drive,

Bradford, Ontario L3Z 3B4 (CA). CHINGCUANCO, Noel [CA/CA]; 82 Baroness Crescent, North York, Ontario M2J 3K6 (CA).

- (74) Agents: PORAT, Alex et al.; Magna International INC., 337 Magna Drive, Aurora, Ontario L4G 7K1 (CA).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

[Continued on next page]

(54) Title: VEHICLE WINDOW REGULATOR HAVING A FLOATING WINDOW CARRIER



(57) Abstract: A window regulator including a drive rod having a linear axis; a runner connected to the drive rod for movement therealong; a window carrier pivotally secured to the runner for supporting a window; and a guide engaged by the window carrier having a radius of curvature such that the window carrier moves the window along a path coincident with the radius of curvature as the runner moves linearly along the drive rod.

2005/054615 A1 ||||||||

### WO 2005/054615 A1



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

#### Published:

with international search report